

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515



QUALITY CERTIFICATE

Vessel	"Submitted "	Port	Providence, RI	Report	121504
Customer	Sprague Energy	Date	December 5, 2004	Reference	
Operation	Analysis	Terminal	Sprague Providence	Sample #	685504

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

No 6 Fuel Oil

Shore Tank # 6 After Discharge
BSi Inspectorate
BSi Inspectorate

Tests being Performed	Test method	Sample Results
Gravity API @ 60F / Denisty	D - 4052	11.8 / 0.9871
Flash Point, PMCC, F	D - 93	184
Viscosity cSt @ 122F	D - 445	184.1
Viscosity SSF @ 122F	D - 2161	87.3
Pour Point C / F	D - 97	9 / 48
Sulfur , Wt%	D - 4294	0.982
Water and Sediment, Vol %	D - 1796	0.400
Sediment by Extraction, wt%	D - 473	0.04
Water by Distillation, Vol%	D - 95	0.4
Gross Heat of Combustion, BTU / lb	D - 240	18,286.80
Gross Heat of Combustion, BTU / gal	D - 240	151,334.24
Ash, wt %	D - 482	0.069
Vanadium, ppm	D - 5863 B	28
Sodium, ppm	D - 5863 B	17
Nitrogen, wt%	D - 5762	0.34
Ashphaltenes, wt%	IP - 143	3.64
Carbon Res., Ramsbottom on 10% bottom	D - 189	9.850
<p>SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED IN THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.</p>		

** Annotates Analysis Contracted Out

*** Annotates Loadport information- this test was not performed by inspectorate